

*Street*Cam

Vehicle Recorder



User Manual
version 3.3.0

StreetCam Digital Video Recorder

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As our products are subject to continuous improvement, we and our subsidiaries reserve the right to modify product design, specifications, and prices without notice and without incurring any obligation.

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WARNING



Do not clean the unit with liquid as it may damage the product and cause a fire or electric shock.



Do not insert unrelated objects into the product as it may cause a fire or electric shock.



Do not disassemble, repair, or modify the unit for it will void the warranty.



Do not adjust the unit while operating the vehicle.



Keep the unit out of the sun. Direct sunlight will distort the image.



To prevent data loss, turn off the device prior to removing the SD card.



For better visual quality, keep the lenses clean.



If the unit begins to smoke, turn off the product immediately.

WARNINGS



CAUTION

**CAUTION RISK OF ELECTRIC SHOCK
DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER. NO USER SERVICABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightening flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

PRODUCT FEATURES

The STREETCAM features a built-in GPS antenna, h.264 video compression for ultra-clear video, and intuitive playback software for archiving and viewing recorded videos. STREETCAM is designed to record daily driving events inside your vehicle, and from the driver's view. Use the included STREETCAM software to play back the events.

STREETCAM Features

- 4 hours(15f/sec) recording time on a 4 gigabyte SDHC memory card (included)
(Supports a maximum of a 32GB SDHC memory card)
- 2 high resolution color cameras to record a vehicle's interior and driver's view
- Viewing angles: Driver-view camera: 120° field of view
In-Car view camera: 175° field of view
- H.264 video compression for high quality, compact video files
- Record driving events and pinpoint the location of the event using Google Maps™
(Internet connection required).
- Integrated GPS antenna, impact sensor and microphone
- Automatically tags recording if an emergency event occurs
- Infra Red (IR) LEDs for night vision recording inside the vehicle

STREETCAM Viewer

- Manage, backup, and view your recorded videos
- Easy and intuitive menu navigation
- View your video while tracking the location of your vehicle with Google Maps™
(Internet connection required).
- Save video files for easy sharing
- Sort videos by event type

Product Contents



StreetCam



Power Cable



Video Out



External Emergency
Button



GPS and
Mounting Bracket



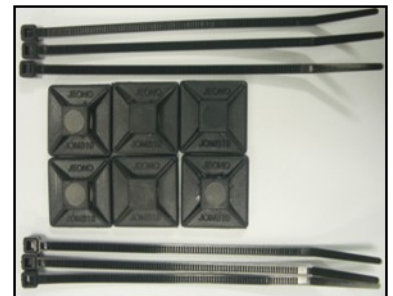
External SD card
reader(optional)



Electronic manual
(Located on Software CD)



SDHC Memory Card



Before You Begin

To set the time and date, you must first install the StreetCam Viewer software (included) on your home computer.

To install the StreetCam Viewer software:

1. Insert the StreetCam Viewer CD into your PC's CD/DVD drive. Locate the StreetCam (3.x.x).exe file on the CD:



2. Double-click the StreetCam (3.x.x).exe file. The installer window appears. Click **Next**.
3. Read and scroll to the very bottom of the software User Agreement. Select the **"I accept the agreement"** box and click **Next** (*Figure 1*).
4. The "Select Installation Method" window appears. Choose **Automatic Installation** or **Manual Installation** and click **Next**.

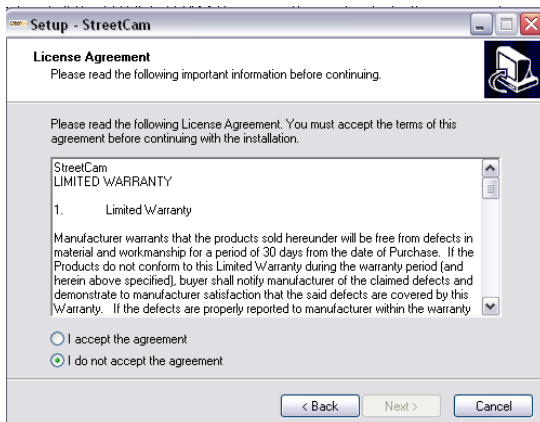


Figure 1



Figure 2

5. Click **Finish** when program installation completes. StreetCam Viewer opens (*Figure 2*).

Setting the Time and Date

To adjust the Time and Date with the StreetCam Viewer open:

1. Insert the SD memory card into the memory card reader and plug memory card reader into your computer's USB port

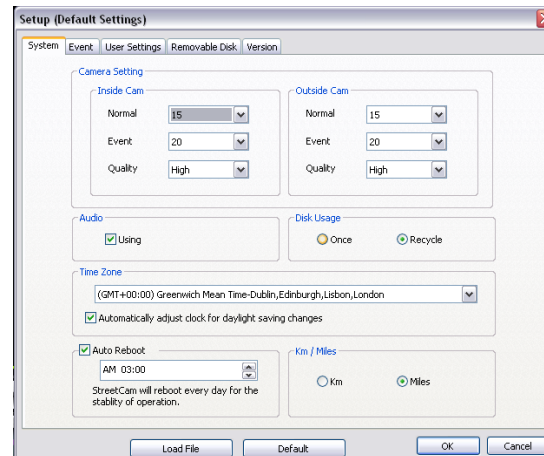
NOTE: Use the included memory card reader to ensure compatibility.

NOTE: The SDHC memory card slides smoothly all the way into the memory card reader.

The SDHC memory card goes in one way only. Do not force the card in.

3. Click **OK** on the log in window prompt. The default login is: admin. The default password is left blank.

4. Click  (setup). The Setup window opens:



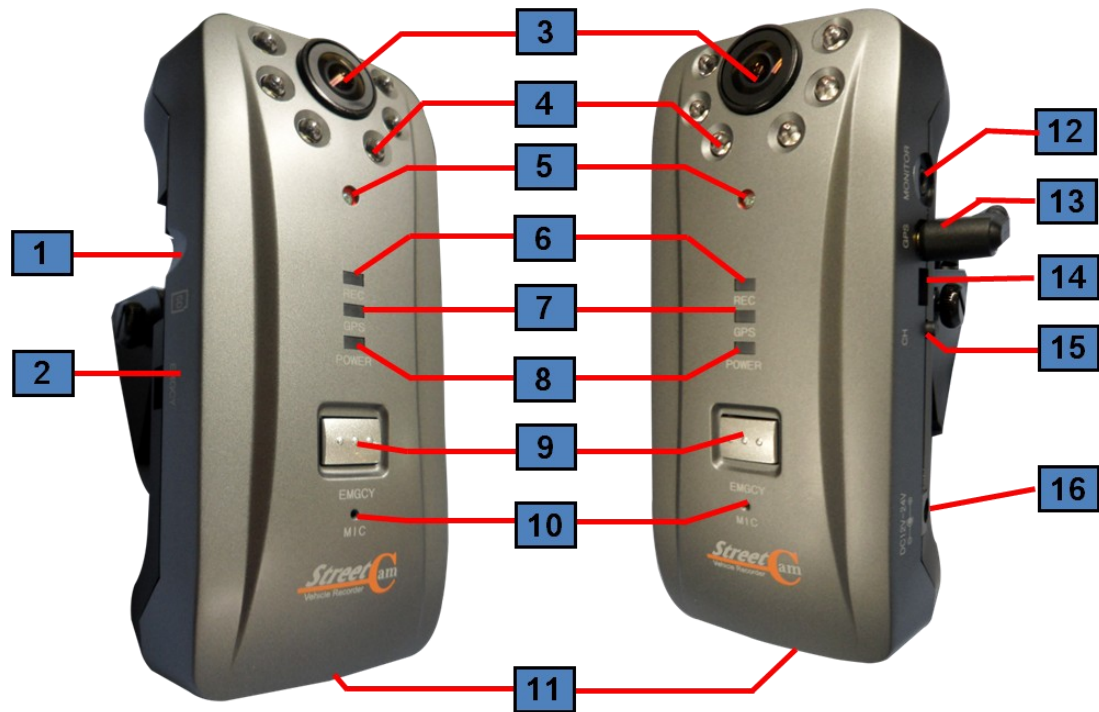
5. In the Systems tab, under Standard time-zone, select your time zone and daylight savings settings. Click **OK**. The Save As window appears.

6. Locate the **SD memory card reader directory**. Click **Save**.

NOTE: Make sure that you save the JDF file onto your SD memory card, and NOT onto your PC hard drive (ie. C:\). All StreetCam Settings must save onto the SD memory card for settings to take effect.

7. Eject memory card and insert it into the StreetCam. Your StreetCam automatically synchronizes the date with the satellite once powered on.

Product Key



1	SD Memory Slot	9	Emergency Button
2	Emergency Extension	10	MIC
3	Inner-View Camera	11	Front-View Camera
4	IR LED	12	Video Out Port
5	CDS (daylight) Sensor	13	GPS Connector
6	Recording LED	14	Serial Port
7	GPS LED	15	Channel Switch
8	Power LED	16	Power Cable Connector

Specifications

CAMERA	2EA CMOS Built-in
VIDEO INPUT	Digital 2CH built-in
AUDIO INPUT/OUTPUT	C- MIC built-in
VIDEO COMPRESSION	H.264
AUDIO COMPRESSION	ADPCM
RECORDING RESOLUTION	VGA 640X480
RECORDING SPEED	Max 60fps (CH/30fps)
EMERGENCY SWITCH	Emergency recording
VIBRATION SENSOR	Impact detection and recording
GPS SENSOR	Instantly records after sudden acceleration and breaking.
RECORDING MEDIA	SDHC Memory card Class 6 (Max: 32GB, Default 4GB)
LENS	Driver-view 120° and In-car view 175° Wide angle
IR LED	850n 6PCS with CDS Sensor
VIEWER	Windows XP/ VISTA support
POWER	DC 12V~24V (enable Car Battery)
OPERATING TEMPERATURE	0° ~ 50°C (maintain temperature: -25° ~ 85°C)
HUMIDITY	10~95%
WEIGHT	150g
DIMENSION (W x D x H)	65 (W) x 140 (D) x 30(H)mm

Basic Installation

1. Insert the SD memory card.

- a. Open the SD memory slot cover
- b. Insert the SD memory card into the slot with the sticker face up, and upright. Push memory card firmly until you hear a click. Memory card locks in place.
- c. Close SD memory slot cover.



NOTE: The SD memory card should slide smoothly into the memory slot. The SDHC memory card is designed to go in one way only. *Do not force in the card.*

2. Install the mounting bracket

- a. Stick the double-sided adhesive onto the base of the mounting bracket.
- b. Plug the mini-jack connector from the mounting bracket into the side of the StreetCam labeled GPS.
- c. Slide mounting bracket upwards on the back of the device . The mounting bracket locks in place.
- d. Connect the car adapter to the StreetCam and cigarette lighter.



3. Mount the STREETCAM

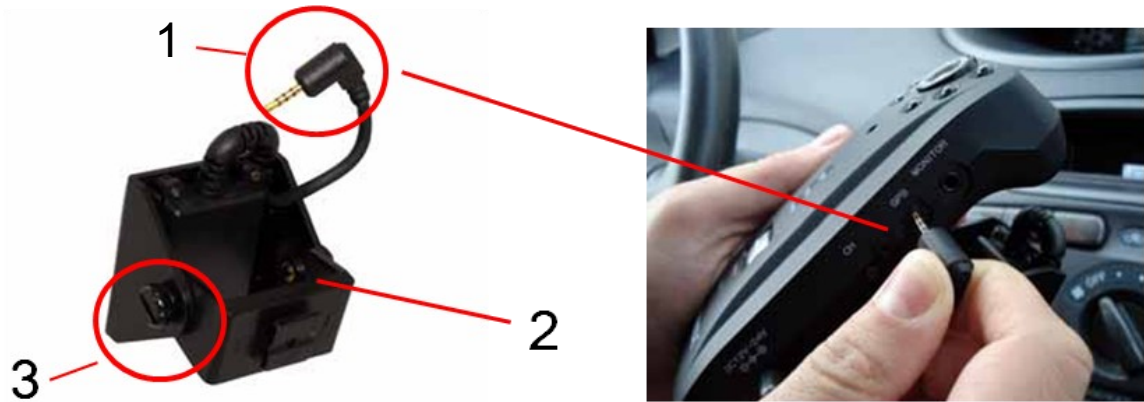
- a. Orient the unit upright. Firmly press the mounting bracket onto the windshield. Hold for three seconds to secure.
- b. Loosen the screws on the mounting bracket to adjust the mounting angle. Tighten screws to secure mounting position.



NOTE: See “Mounting StreetCam” (page 14) for mounting tips.

CAUTION: Always have a clear view of the road. Adjust the positioning of the StreetCam so that it does not affect your driving reflexes and traffic awareness. *Check local laws before mounting unit on windshield.*

Mounting Bracket



1. Mini-jack connector: Transmits GPS tracking information to the StreetCam.

2. GPS Antenna: The GPS (Global Positioning System) antenna tracks your current location in relation to satellites orbiting around the globe and records this information onto the SDHC memory card. When watching videos with the StreetCam Viewer, you can track the location and speed of your vehicle on Google Maps.

NOTE: The built-in GPS antenna DOES NOT act as a portable navigation system. The purpose of the GPS antenna on the mounting bracket is to track your location, and transmit the information to the SDHC memory card only. See “Enabling Google Maps View”.

3. Mounting Bracket Screws: Tightens and loosens the mounting bracket elbow. Twist screws clockwise to tighten, counter clockwise to loosen.

4. Mounting the StreetCam at the correct angle allows the unit to receive optimal GPS reception and recording angles.

NOTE: Apply double-sided adhesive to the mounting bracket base, and orient unit upright before mounting.

Mounting StreetCam

To mount your STREETCAM for the first time:

1. Secure unit to the **right** of your rear-view mirror.

NOTE: Position the unit so that it does not interfere with your view.



2. Press and hold the mounting base firmly to the windshield for three seconds to secure the unit in place.

3. Plug in the car adapter to the StreetCam and into the cigarette lighter to power up.

REMINDER: The mounting bracket adhesive has a powerful bond to surfaces. Double-check the mounting position before securing in place.

4. The Driver-View Camera adjusts to three angles. Push camera up or down to lock in place. Adjust the angle of the mounting bracket by loosening the screws on the side .

5. Tighten screws to secure position.

NOTE: The StreetCam takes 30 seconds to start up. Wait for the **GPS** LED to glow solid green, followed by a beep before driving. The **REC** and **POWER** LEDs glow solid red. During normal operation, the **REC**, **GPS** and **POWER** LED will always be on.



Installing an Emergency Button

The Emergency button extension allows you to bookmark an event as an "Emergency" for easy searching in the StreetCam Viewer. Emergency recordings capture video at 30 frames per second (FPS) for enhanced detail. Place the emergency button extension where you can easily reach.

To install the Panic Button extension cable:

1. Remove rubber cover on the side of the unit with a thin, rigid object (*Figure 1*).
2. Insert the end of the panic button extension into the **EMGCY** port (*Figure 2*).
3. Run the cable along the dashboard to conceal the cable out of view.
4. Remove the double-sided adhesive on the back of the panic button, and stick on surface (*Figure 3*).

NOTE: The end of the panic button extension connects one way into the EMGCY port. *Do not force.*



Figure 1



Figure 2



Figure 3

Using the Emergency Button

The emergency button engages the StreetCam to record at maximum quality, and marks the event as "Emergency" when viewing the file in the StreetCam viewer. When you press the emergency button:

- The video automatically pre-records and post records a set duration that you can configure.
- The video is tagged as an "Emergency" event that you can later search and categorize the video using the included StreetCam Viewer. The video records at maximum resolution (30 FPS).

Recording with StreetCam

The StreetCam records continuously once it receives power. Before recording, familiarize yourself with how the StreetCam records events. The StreetCam comes with a built-in video-out port. You can hook up a portable monitor (not included) to view what the StreetCam records in real-time. This ensures that you have the best possible recording angle.

To connect your portable display to the StreetCam :

1 .Connect the mini-jack from the video cable into the **MONITOR** port on the side of the unit.



2. Connect the yellow RCA video cable into the portable display (not included). The video then displays on the monitor (*figure 2*).

3. Adjust camera angles as needed.

To change camera views:

Press the **CH** button on the side of the unit to change between channel 1 and channel 2. This switches camera views between the in-car camera and the Driver-View camera.



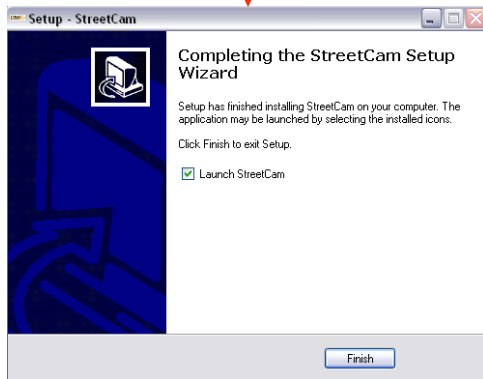
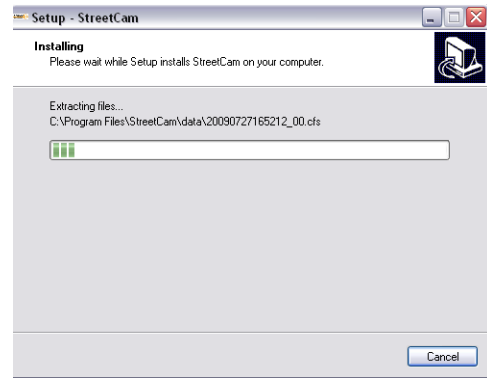
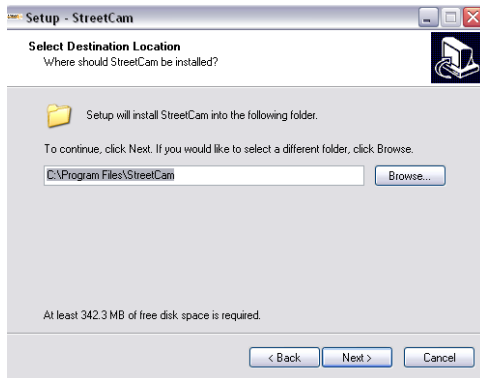
Fig. 2

How the STREETCAM Interprets Bumps and Impacts:

When your vehicle goes over a bump or receives a sudden force, the built-in sensor causes the **REC** LED on the unit to flash for several seconds. This means the StreetCam has bookmarked the event. When an event is bookmarked, you can easily categorize and find the particular moment in the Event window when you encountered the sudden bump or impact. See “Viewing Recorded Video Files” for details on how to find videos by events.

StreetCam Viewer installation

1. Run “STREETCAM (3.X.X).exe” file from the Installation CD. (If the Operating System (OS) is VISTA, right click the mouse and install. Foreign languages are provided and the program will be translated according to the PC’s OS)



Click **Finish**.
StreetCam
Viewer will
automatically
launch.



For more information, refer to the *Before You Begin* section on page 8 of the user manual.

StreetCam Viewer Main Screen

StreetCam's main screen (Before opening the recording data):



Click on the Settings Icon and then the **User Settings** tab to enter a new user name and password. Click OK to save them in the system.

If security is needed for the recorded data on the SD card, you can restrict access of other people by creating a separate User ID and password.

Caution: Recorded data can not be accessed if the ID and the password are forgotten. StreetCam recommends writing down the ID and Password and storing it in a safe place.

Be sure to insert the SD card into the StreetCam's SD card slot while driving & recording. To play video, pull out the SD card from the StreetCam and insert it into your PC's card reader. You will have to enter the ID and password on StreetCam viewer.

StreetCam Viewer Main Screen (Continuted)



1	Event Searching Button	6	Open Files
2	Minimize	7	Backup to (JDF, AVI, JPEG, BMP)
3	Maximize	8	Configuration
4	Shut Down	9	Print
5	Play Buttons	10	E-map Open

Play Modes

Play Buttons:

	Move 1 frame backward		Play backward
	Pause		Play
	Move 1 frame forward		1 Channel play
	2 Channel Play		2 Channel in one time (PIP)



G-Sensor Graph : When the event happens, the impact level of left & right, up & down, front & rear will display.

X axis : Front & Rear movement

Y axis : Left & Right movement

Z axis : Up & Right movement

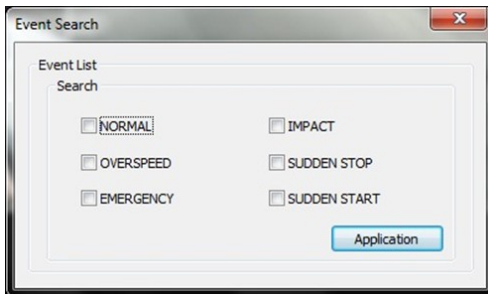
Play Modes

When playing the recorded files, they are distinguished by category such as normal, emergency, and over speed. The files are displayed in order by year/month/day/time/minute/second/event.

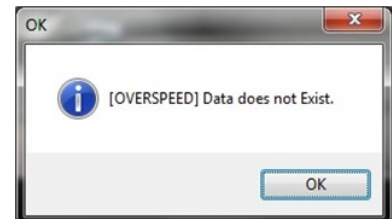


Event search icon :
divides event categories

When you click the event button, the video playback stops and the event search window box will pop up. Search by checking the incident type in the corresponding box. The application will then display a result list for your selected incident types.



If there is no data for your selected incident type, a warning box will pop up.



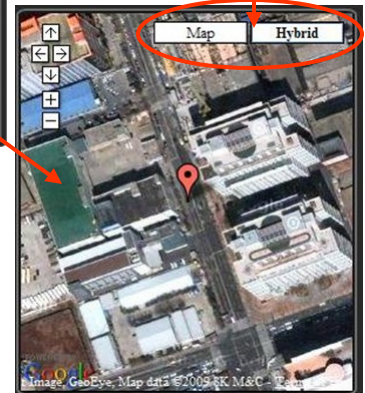
Enabling Google Maps View

StreetCam viewer displays the location of your vehicle on Google Maps. This feature allows you to pinpoint the location of an event. *Full screen viewing mode disables Google Maps View.*

To start Google Maps view, click the play icon on the Google Maps window. Google Maps connects, and shows the current location of the vehicle on the map.



2 different
types of maps
are available
Map & Hybrid

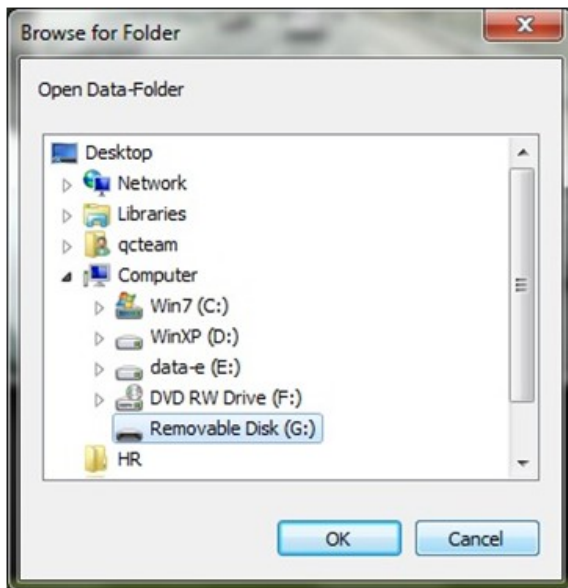


NOTE: Google Maps requires an internet connection to retrieve map data.

Open & Back Up Buttons



Open : Select and playback the recorded video data.



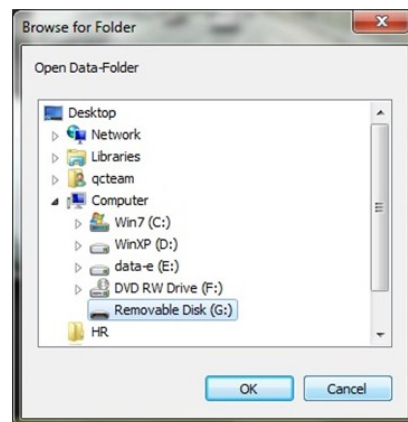
Insert the SD memory card into your card reader or computer and then select the drive from the list. Choose the data you wish to view, then Click **OK**.



Back-up : Save the a picture or video file.

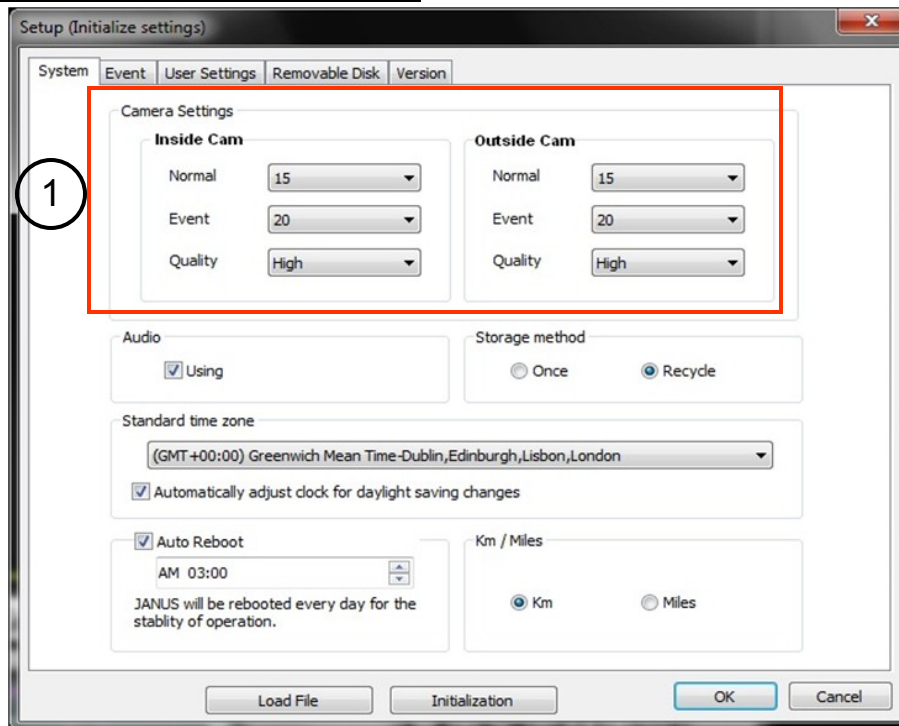


Select the type of file you would like to save, (either image or video) and Click OK.



Browse for the directory you wish to save your picture in. Click OK.

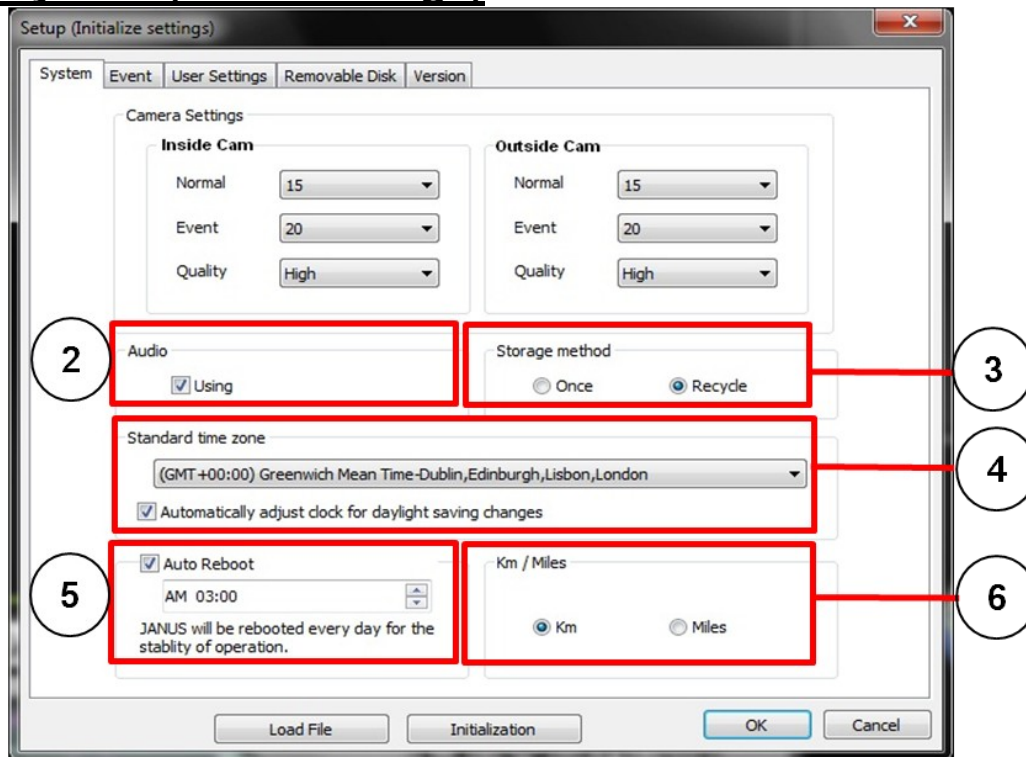
Setup: System (Camera Settings)



1 Camera setting : Setup recording frames per second for each camera

- Normal – Setup frames of normal recording
(default is 15 frames/second)
- Event – Setting frames of event during an event.
- Resolution – Recording resolution can be set to: Very high, high, normal, low, or very low. (Resolution will depend on SD memory capacity)
 - ✓ Default frames : Normal 15, Event 20, Very high resolution.
 - ✓ Event frame must be higher than normal frame when it's set up.
 - ✓ With very high resolution, the best supported frame is 20 frames per second.

Setup: System (Other settings)



2. Audio: audio recording in use or not

3. Saving Method

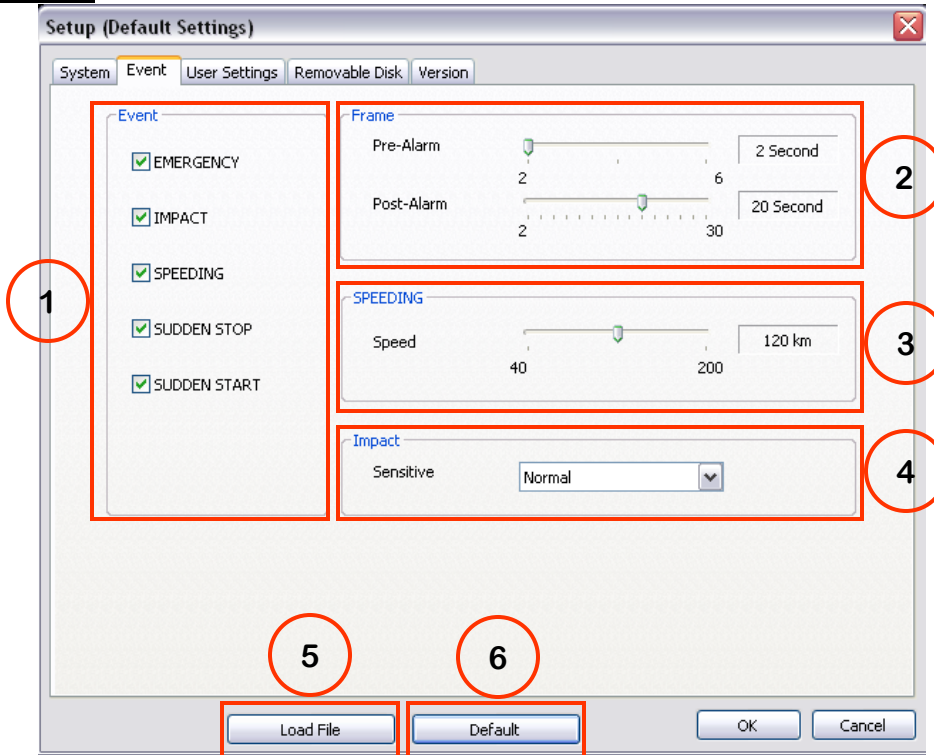
- Once - When the SD memory card is full, the device will stop recording
- Recycle – When the SD memory card is full, it will automatically overwrite only the normal mode data saved on to the SD card from the beginning.

4. Standard time zone : Set the appropriate time for your area. *Please set the time zone before recording. The time zone is not set before recording.*

5. Auto Reboot : If you connect StreetCam to the battery of the car for continuous operation, we recommend you to select the auto reboot feature to preserve stable operation.

6. Km / Miles : choose Kilometers or Miles on viewer.

Setup: Event



1. Event : Check the settings accordingly by types of events such as: emergency, impact, over speed, sudden brakes or sudden acceleration.

2. Frame :

- Pre-alarm: 2~6 seconds recording before event occurs
- Post-alarm: 10 ~30 seconds recording after event occurs

3. Speeding: Sets the over speed limit. Once the set speed limit has been exceeded, the device will begin recording. Km or Miles are shown according to preferences.

4. Impact : Configures G-Sensor sensitivity.

5. Load file : Saves the configuration settings onto your PC

6. Default: Restores factory default settings

Setup: User Settings

Setup (Default Settings)

System Event **User Settings** Removable Disk Version

Car Info

Car Info

Driver Info

Serial Info

User Info

User ID

Password

Load File Default OK Cancel

Car Info

1. Vehicle information
2. Driver information

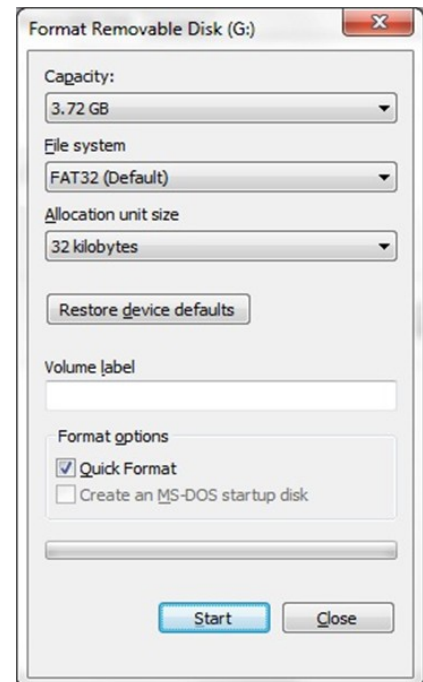
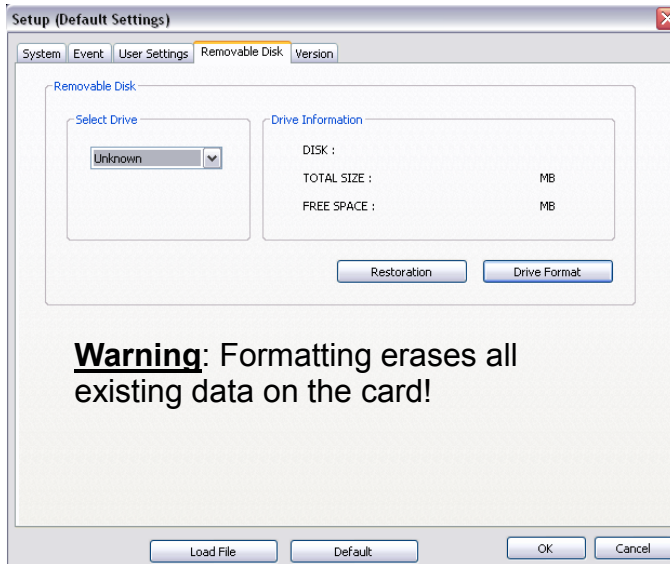
User info

If security is needed for the recorded data on the SD card, you can restrict access by creating a separate ID and password.

Caution: Recorded data will not be accessible if the ID and the password are forgotten. We recommend writing down the ID and Password and storing in a safe place.

Setup: Removable Disk (Drive Format)

Before using an SD card in your StreetCam, you will need to format it. This will ensure your Data is recorded accurately and can be viewed easily using the viewer. Select the drive from the list on the left, and click the Drive Format button. A new window will open:



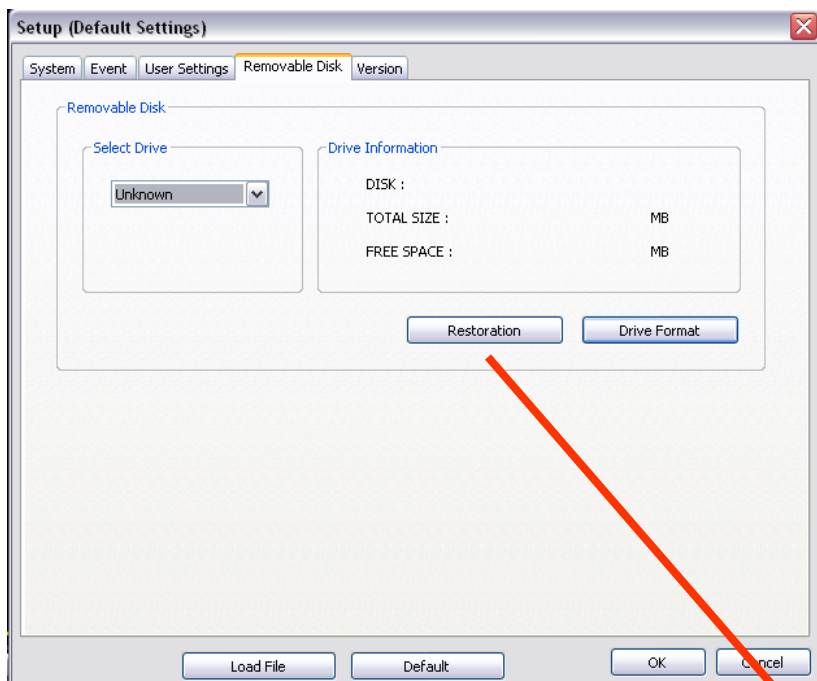
The Drive capacity will be automatically detected. Do not change the File System, Allocation Unit and Format options in from the default settings (as shown on the right). Street-Cam works at optimal performance using the default settings.

Click **Start** to format the drive.

After formatting SD card, please insert it into StreetCam and connect the power. Three folders (data, update, config) automatically create and a system.cgg file which has the default settings data should be created in the config directory.

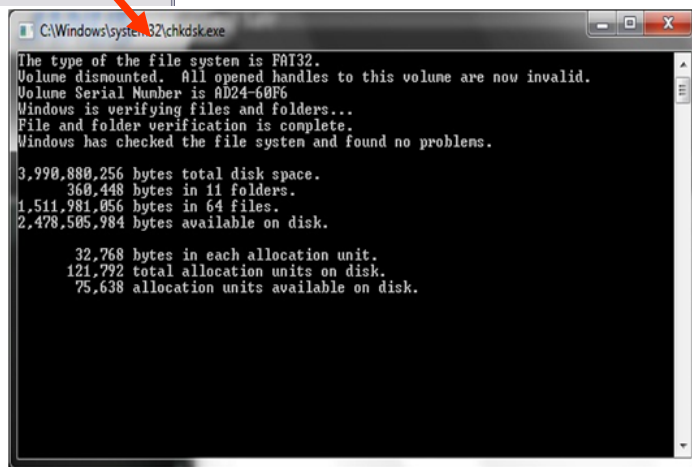
Setup: Removable Disk (Restoration)

This tab is used for Restoring or Formatting a SD card. If your unit stops recording properly, restoring can reset the SD card back to the original state at time of purchase. However, any data stored on the card will be lost.



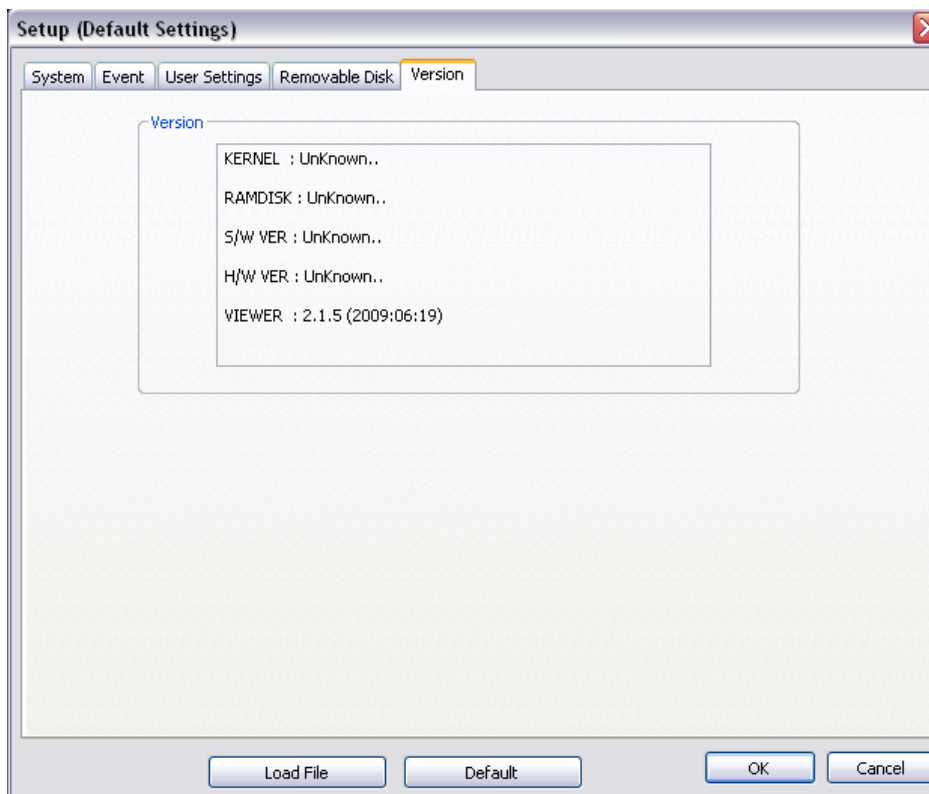
Select the SD card from the drive list on the right. Then click the restore button. Your computer will run a Check disk program that will check your SD card for corrupt data, and remove it.

When Restoration begins, a DOS window will open. After restoring the SD card, the DOS window automatically closes.



Setup: Version

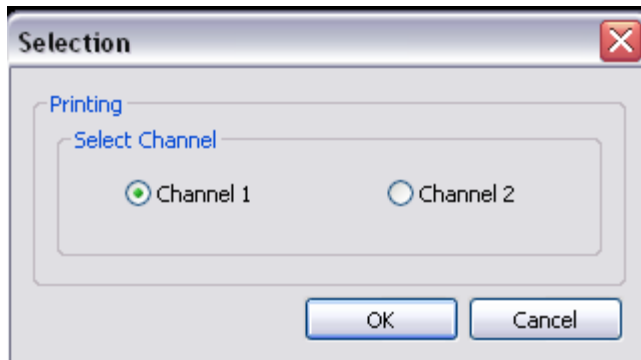
This window gives you all of the unit specific information for your StreetCam.. In the event of a warranty claim or questions about your specific StreetCam product, you will need this information. Also, please refer to this panel in the event of a new software release or update to be certain you have the most up-to-date version.



Print



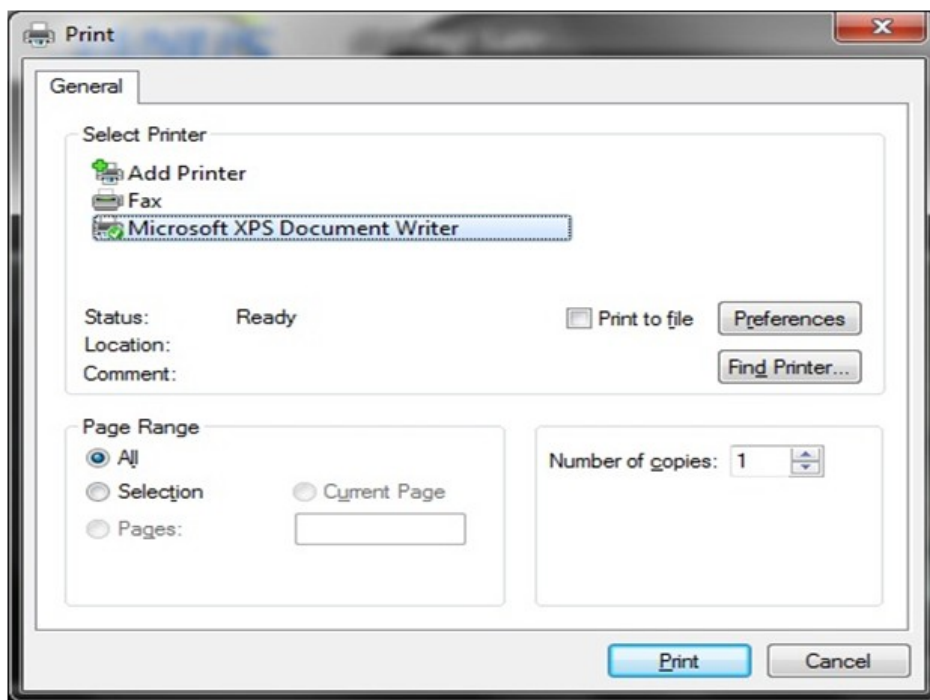
This button enables you to print out pictures of video data. When this button is clicked, the moving video stops and a picture of the on-screen view can be printed out.



CH 1 : In-car view image

CH 2 : Driver view image

Select the printer connected with PC and click **Print** to print out.



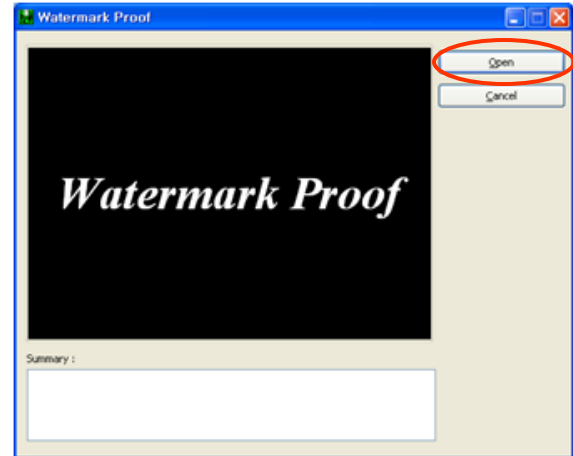
Watermarks

BMP (Watermark) :To ensure video images have not been tampered with StreetCam Viewer comes bundled with a watermarking software called Watermark Proofer. The watermark function allows you to take an image of a single frame screen shot, and verify that the screen shot has not been tampered with. To create a Watermark, Under Select Image, click BMP (Watermark) and click **OK**.

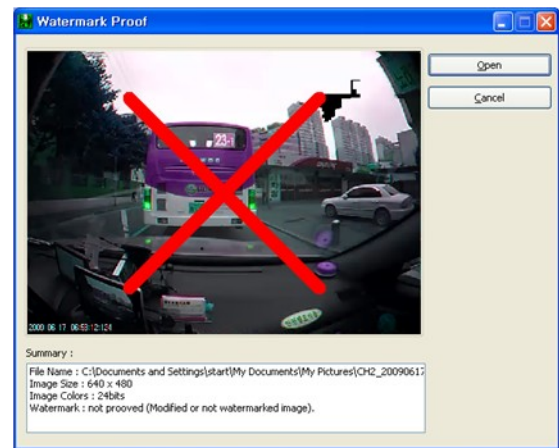
Execute the watermark Proof Program to view your file. It is located in

Folder C: →Program Files→ StreetCam.

Then click open and find your saved file (see page 23).



A Watermarked image that has NOT been tampered with shows a large green circle on the image.

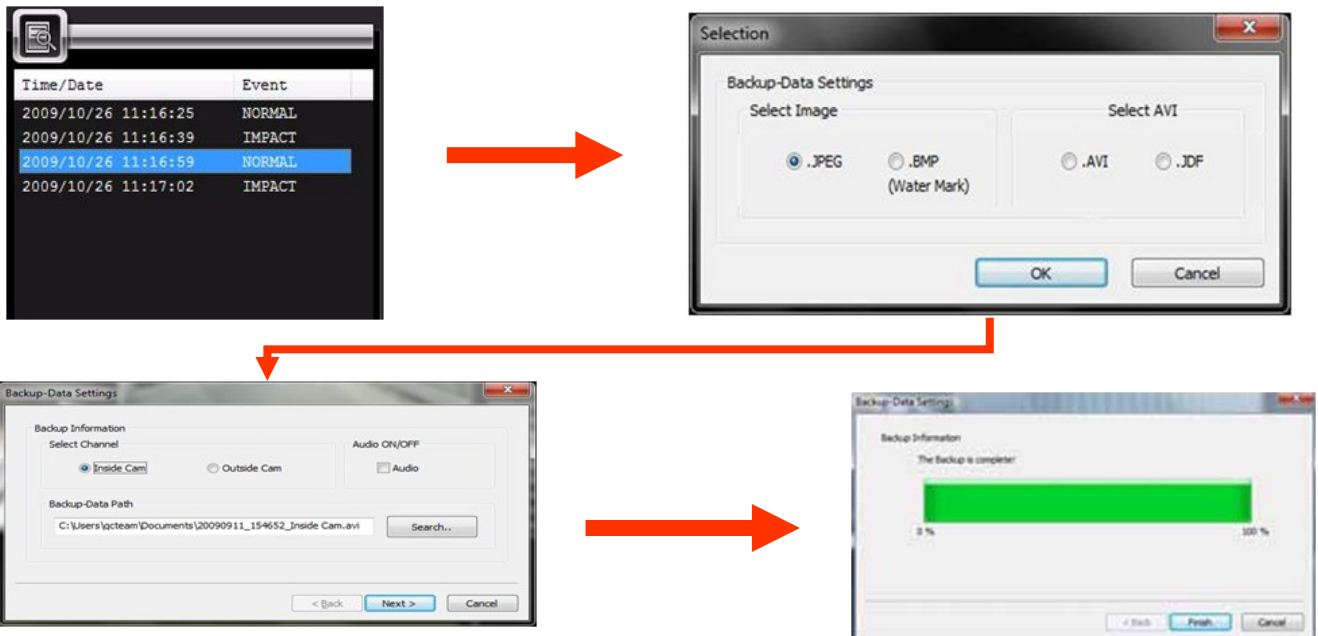


A Watermarked image that HAS been tampered with shows a large red 'X' on the image.

Video

AVI or JDF : You can convert your video files to .AVI format . By default, the videos are encrypted with a proprietary compression that is NOT playable alone. To have your video files play as a stand-alone file, you must compress the files using Viewer. (For other video players that are not StreetCam viewer)

1. You can only select one event at a time. Click the video you wish to backup from the Event browser.
2. Click (Back up) to open the backup screen.
3. Select AVI and click **OK**. The Backup-Data Settings window opens.
4. Select the channel you wish to back up under Select Channel (Inside-Cam or Outside-Cam).
5. Select the checkbox under Audio ON/OFF to enable or disable sound.
6. Click the **browse** button under Backup-Data Path to select the directory you wish to save your file and then click Save.
7. Click **Next** to backup and compress your video. A confirmation window will appear.



Applying Changed Settings

When modifying or updating the settings on your StreetCam, please be certain to follow the process outlined below:



1. Take out SD memory card from the StreetCam unit



2. Insert SD memory card into the PC.

3. Run StreetCam viewer (*See page 17 & 18*)
4. Open configuration and change the setting (*See page 24-29*)
5. Close the StreetCam viewer and take out the SD memory card.
6. Insert SD memory card into StreetCam and turn on the power.

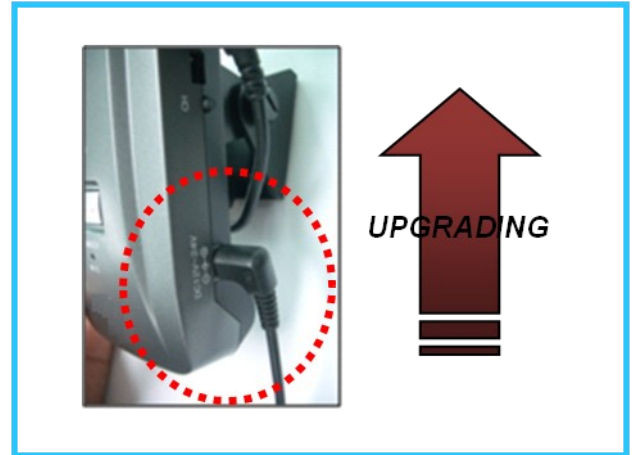
Helpful Hints

For optimal performance, please keep the following in mind when using your StreetCam:



Insert SD memory card the proper way prior to starting the device. (A beeping sound will be heard when inserting or removing the SD memory card from the device).

The power **MUST NOT** be turned off when upgrading the firmware, the GPS, REC and POWER LED lights will be lit while upgrading.



All 3 LED lights will light up prior to the start up of the device.

Be sure to backup your data before overwriting the SD card. STREETCAM will be overwritten when the memory is full.



Tips for using SD memory card

Long term usage in SD memory card might be a cause of loss of data so please purchase a new memory card for use. Loss of data due to overuse of a memory card is not the responsibility of the manufacturer.

Any loss of data due to third party use is not the responsibility of the manufacturer.

Always back up important data.

We recommend using an SD memory card that has completed the reliability test.

For stable use of product, format SD memory card(FAT32) at least once in a month.

Provided SD memory card is strictly for STREETCAM use only. Putting other files on the memory card could potentially cause damage.

Please use SDHC card reader only.

Make sure to turn off the device before taking out the SD memory card.

Compatibility table (These cards meet the recommended specifications: (SDHC Class 6)

Transcend SDHC Class 6	LG SDHC Class 6
SanDisk Ultra II SDHC	TOSHIBA SDHC Class 4

Minimum system requirements for using StreetCam viewer :

- CPU/Memory : more than P4 Dual core / 512M
- OS : Windows XP Home/Pro, Vista
- Graphic : DirectX 9.0C or higher
- HDD : 200MB of free space

Image or voice data can desynchronize or freeze depending on computer capabilities.

Tips for using GPS

1. GPS connection time will vary depending on the vehicle's location and/or surrounding environment.
2. GPS signal can be degraded by the sun visor of the vehicle
3. Make sure the GPS bracket antenna cable is still plugged into the product when the power is off.

GPS calculates the location based on the signal from satellites. Due to the constant movement relative to the satellite, recalculation takes time. Recalculating will take longer depending on the time difference from the last stored GPS data. (*see calculation estimates below*)

NOTE: The built-in GPS antenna DOES NOT act as a portable navigation system. The purpose of the GPS antenna on the mounting bracket is to track your location, and transmit the information to the SDHC memory card only.

Recalculation Estimates:

A few minutes after the power has been turned off: About 15 seconds

One day since the power has been turned off: 15 ~ 30 seconds

3 days or more since the power has been turned off: 90 seconds

Troubleshooting

Problem	Possible Solutions
Power Doesn't turn on	Check if the power cable is connected.
	Check the power voltage.
	Check the fuse for the cigarette/power jack.
	If you still encounter problems, please contact your distributor or retailer.
Missing Recorded files	Check if the recorded SD card is inserted correctly.
Images show on monitor but can't be recorded	Check the SD memory card.
	Format the SD memory card.
	Make sure that the SD memory card is not locked.
	If you still encounter problems, please contact your distributor or retailer.
Can't play recorded file	Check if the SD memory card is installed properly. Possible SD memory card reformatting may be necessary.
Objects recorded are blurry	Make sure to remove the secure film on the camera lens.
	Wipe and clean the camera lens with a soft fabric.
	For the best result, clean the camera lens on a regular basis.
	If you still encounter problems, please contact your distributor or retailer.
No night view	Please contact your distributor or retailer.
Product reboots after inserting SD memory card	Please format the SD memory card.
GPS map not working	Check for internet connection.
Channel switch not working	Please contact your distributor or retailer.
StreetCam Viewer not installing	Check the OS version. It must be installed with administrator privileges (on VISTA)
Missing images (frames)	Only SD memory card class 6 type is supported. Verify there was not a sudden loss of power to the unit, as this will affect data.
SD memory card cannot be read	Check if the card reader supports SDHC type.
Recording time/date incorrect	Configure the local date and time before starting StreetCam.